

Attorney Document No.: 01/25/02.P024



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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)
)
Leifer et al.)
)
Application No: 09/336,933)
)
Filed: June 21, 1999)
)
For: NULL DEEPENING FOR AN ADAPTIVE)
ANTENNA BASED COMMUNICATION)
STATION)

Examiner: P. Tran

Art Unit: 2684

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Assistant Commissioner For Patents
Washington, D.C. 20231

AMENDMENT

Dear Sir:

In response to the Office Action mailed January 3, 2002, please enter the following amendment and consider the following remarks.

IN THE SPECIFICATION

Please replace the paragraph beginning on page 5, line 5 with the following:

One aspect of the invention is a method for determining, in a communication station using multiple antennas, improved uplink or downlink processing strategies, for example in the form of uplink or downlink weights for linear smart antenna processing, for which one or more nulls have a controlled depth. The method can be applied as a modification to a variety of known techniques for uplink and downlink strategy computation. The method needs as side information only the signatures of those remote users to which controlled nulls are to be directed. Other nulls in the array pattern, for which no signature estimates may be available, are substantially